Mastoparan

Mast cell degranulating peptide

Cell permeable, amphiphilic, mast cell degranulating tetradecapeptide. Stimulates glycogenolysis and phospholipase D_2 (PLD_2) activity. Alters G-proteins in brain membranes. Directly activates G proteins by a mechanism analogous to that of G protein-coupled receptors. Acts preferentially on G_i and G_o rather than G_s. Stimulates exocytosis and phosphoinositide breakdown in a variety of cells. Inhibits calmodulin, and activates PLA_2. Acts as a mitogen in Swiss 3T3 cells and stimulates pertussis toxin-sensitive arachidonate release without phosphoinositide breakdown.

Citations: 8 View Online »

Ordering Information

Order Online »

BML-G410-0001	1mg

Manuals, SDS & CofA

View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Store, as supplied, at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	White to off-white solid.
CAS	72093-21-1
Formula	$C_{70}H_{131}N_{19}O_{15}$
Formulation	Lyophilized.
Identity	Determined by MS.
MW	1478.9
Purity	≥95% (HPLC)
Sequence	H-Ile-Asn-Leu-Lys-Ala-Leu-Ala-Ala-Leu-Ala-Lys-Lys-Ile-Leu-NH_2
Solubility	Soluble in water (1 mg/ml) or 100% ethanol.
Source	Synthetic. Originally isolated from wasp venom (*Vespula lewisii*).

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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